

AMENDMENTS TO THE CLAIMS

1. (currently amended) A terminal device, comprising:
[[(a)]] a memory storing therein at least two programs ~~grouped into at least two groups with respect to~~, each of said at least two programs comprising one of a to-be-used program and a to-be-removed program, according to a function of a program said terminal device; and
[[(b)]] a memory management table, which stores ~~first~~ data about whether each of said at least two programs ~~is used or not~~ comprises said to-be-used program or said to-be-removed program, and ~~removes~~ causes a non-used said to-be-removed program to be removed from said memory.
2. (currently amended) The terminal device as set forth in claim 1, wherein said memory ~~receives~~ adds only a necessary program from a program-transferring device, in accordance with said ~~first~~ data,
wherein said necessary program comprises said to-be-used program.
3. (currently amended) The terminal device as set forth in claim 1, further comprising a ~~first device to carry out a program controller~~, said first device controller causing ~~said memory to boot a said to-be-used program to be booted~~ to said ~~first device memory~~ with reference to said ~~first~~ data, if a check sum of said memory is not coincident with a check sum of said first device, and copying programs stored in said first device into said memory.
4. (currently amended) The terminal device as set forth in claim 1, wherein said terminal device ~~is a portable one~~ comprises a portable terminal device.
5. (currently amended) A terminal device, comprising:
[[(a)]] a first memory storing at least one transferred program ~~therein~~ transferred from a base station;
[[(b)]] a second memory storing ~~both~~ a main program and an application program for ~~carrying out requisite functions~~;

[[(c)]] a third memory storing data in a table, about whether each of said main program and said application programs program comprises one of a to-be-used program and a to-be-removed program in the form of a table;

[[(d)]] a signal-receiving and -transmitting circuit for receiving ~~a signal from~~ and transmitting a signal to ~~a base~~ said station; and

[[(e)]] a central processing unit which controls an operation of said first ~~to third~~ memories memory, said second memory, said third memory, and said signal-receiving and -transmitting circuit.

6. (canceled)

a 7. (currently amended) The terminal device as set forth in claim 5, wherein said third memory stores [[(a)]] a program ID of each of said ~~programs~~ main program, said application program, and said at least one transferred program, [[(b)]] a flag indicating whether each of said ~~programs~~ main program, said application program, and said at least one transferred program is used or not, [[(c)]] a packet number ~~being~~ transferred from a program-transferring device, [[(d)]] a final packet number transferred from a program-transferring device, [[(e)]] an initial storage address of ~~an address in which a~~ said main program, said application program, and said at least one transferred program is stored, and [[(f)]] a length of [[a]] said main program, said application program, and said at least one transferred program.

8. (currently amended) The terminal device as set forth in claim 5, wherein said first memory receives only a necessary program from a program-transferring device, in accordance with said data stored in said third memory,

wherein said necessary program comprises one of said main program, and said main program and said application program.

9. (currently amended) The terminal device as set forth in claim 5, wherein said ~~second~~ memory central processing unit causes said first memory to boot a to-be-used program to said second memory with reference to said data stored in said third memory, if a check sum of said first memory is not coincident with a check sum of said ~~third~~ second memory, ~~and copies~~

~~programs stored in said third memory into said first memory.~~

10. (original) The terminal device as set forth in claim 5, wherein said first memory is comprised of an electrically erasable programmable read only memory (EEPROM).

11. (original) The terminal device as set forth in claim 5, wherein said second memory is comprised of a random access memory (RAM).

12. (original) The terminal device as set forth in claim 5, wherein said third memory is comprised of an electrically erasable programmable read only memory (EEPROM).

13. (original) The terminal device as set forth in claim 5, further comprising a power source electrically connected to said second memory such that said second memory can keep storing data even when said terminal device is turned off.

14. (currently amended) The terminal device as set forth in claim 5, wherein said terminal device ~~is a portable one~~ comprises a portable terminal device.

15. (currently amended) A system for changing programs stored in a terminal device, comprising:

[[a)] a base station;

[[b)] a program-transferring device which transfers a transferred program to said base station; and

[[c)] a terminal device which downloads ~~a program thereinto~~ said transferred program from said program-transferring device through said base station, said terminal device including:

[[c1)] a memory storing therein at least two programs ~~grouped into at least two groups with respect to~~ each of said at least two programs comprising one of a to-be-used program and a to-be-removed program, according to a function of a program said terminal device; and

[[c2)] a memory management table, which stores ~~first~~ data about whether each of said at least two programs is used or not comprises said to-be-used program or said

to-be-removed program, and ~~removes~~ causes a non-used said to-be-removed program to be removed from said memory.

16. (currently amended) The system as set forth in claim 15, wherein said program-transferring device transfers only a necessary program to said first memory in accordance with said ~~first data~~,

wherein a necessary program comprises one of a main program, and a main program and an application program.

17. (currently amended) The system as set forth in claim 15, wherein said program-transferring device ciphers a program ~~to be~~ transferred to said terminal device, in response to a password transmitted from said terminal device.

18. (currently amended) The system as set forth in claim 17, wherein said password ~~[[is]]~~ comprises one of a serial ~~number or~~ number and a telephone number of said terminal device.

19. (currently amended) The system as set forth in claim 15, wherein said terminal device further includes a ~~first device~~ controller to carry out a program, said ~~first device causing said memory to boot a controller booting said to-be-used program to said first device memory~~ with reference to said ~~first data~~, if a check sum of said memory is not coincident with a check sum of said device, and copying programs stored in said first device into said memory.

20. (currently amended) The system as set forth in claim 15, wherein said program-transferring device ~~is comprised of~~ comprises:

[[b 1)] a memory storing a program;

[[b2)] a circuit which encodes said program and transmits ~~the thus encoded said~~ program, which is encoded, to said base station; and

[[b3)] a controller which controls an operation of said memory and said circuit.

21. (currently amended) The system as set forth in claim 15, wherein said terminal device ~~is a portable one~~ comprises a portable terminal device.

22. (currently amended) A system for changing programs stored in a terminal device, comprising:

[[a)] a base station;

[[b)] a program-transferring device which ~~transfers a~~ transfers at least one transferred program to said base station; and

[[c)] a terminal device which downloads ~~a program thereto~~ said at least one transferred program from said program-transferring device through said base station, said terminal device including:

[[a)] a first memory storing said at least one transferred program therein;

[[b)] a second memory storing ~~both~~ a main program and an application program ~~for carrying out requisite functions~~;

[[c)] a third memory storing data in a table, about whether each of said main program and said application ~~programs~~ program comprises one of a to-be-used program and a to-be-removed program in the form of a table;

[[d)] a signal-receiving and -transmitting circuit for receiving ~~a signal from~~ and transmitting a signal to a base station; and

[[e)] a central processing unit which controls an operation of said first ~~to third memories~~ memory, said second memory, said third memory, and said signal-receiving and -transmitting circuit.

23. (currently amended) The system as set forth in claim 22, wherein said program-transferring device transfers only a necessary program to said first memory in accordance with said first data, wherein

said necessary program comprises one of said main program, and said main program and said application program.

24. (currently amended) The system as set forth in claim 22, wherein said program-transferring device ciphers a program ~~to be~~ transferred to said terminal device, in response to a password transmitted from said terminal device.

25. (currently mended) The system as set forth in claim 24, wherein said password [[is]]

comprises one of a serial number or number and a telephone number of said terminal device.

26. (currently amended) The system as set forth in claim 22, wherein said third memory stores data about whether said main ~~program is~~ program comprises one of said to-be-used program or not and further and said to-be-removed program and whether said application program ~~is used or not~~ comprises one of said to-be-used program and said to-be-removed program.

27. (currently amended) The system as set forth in claim 22, wherein said third memory stores [(a)] a program ID of each of said programs main program, said application program, and said at least one transferred program, [(b)] a flag indicating whether each of said programs main program, said application program, and said at least one transferred program is used or not, [(c)] a packet number being transferred from a program-transferring device, [(d)] a final packet number transferred from a program-transferring device, [(e)] an initial storage address of an address in which a said main program, said application program, and said at least one transferred program is stored, and [(f)] a length of [(a)] said main program, said application program, and said at least one transferred program.

28. (currently amended) The system as set forth in claim 22, wherein said first memory receives only a necessary program from a program-transferring device, in accordance with said data stored in said third memory,

wherein a necessary program comprises one of a main program, and a main program and an application.

29. (currently amended) The system as set forth in claim 22, wherein said ~~second memory~~ central processing unit causes said first memory to ~~boot a~~ boot said to-be-used program to said second memory with reference to said data stored in said third memory, if a check sum of said first memory is not coincident with a check sum of said ~~third~~ second memory, ~~and copies programs stored in said third memory into said first memory.~~

30. (currently amended) The system as set forth in claim 22, wherein said program-

transferring device ~~is comprised of~~ comprises:

[[(b 1)]] a memory storing a program;

[[(b2)]] a circuit which encodes said program and transmits ~~the thus encoded~~ said program, which is encoded, to said base station; and

[[(b3)]] a controller which controls an operation of said memory and said circuit.

31. (currently amended) The system as set forth in claim 22, wherein said terminal device ~~is a portable one~~ comprises a portable terminal device.

32. (currently amended) A method of changing programs stored in a terminal device, comprising ~~the steps of~~:

[[(a)]] storing a plurality of programs ~~in groups with respect to a function of a~~ program in a memory, each of said plurality of programs comprising one of a to-be-used program and a to-be-removed program, according to a function of said terminal device; and

[[(b)]] removing ~~a program among~~ said to-be-removed program from said plurality of programs from said memory in accordance with data about whether each of said plurality of programs ~~is used or not~~ comprises one of a to-be-used program and a to-be-removed program.

33. (currently amended) A method of changing programs stored in a terminal device including a first memory ~~having an~~ including a first area to store a transferred program ~~therein~~ transferred from a base station, a second memory ~~having an~~ including a second area to carry out a program therein, and a third memory storing data about whether said transferred program stored in said first memory is used or not, comprising ~~the steps of~~:

[[(a)]] calculating a check sum of said first memory;

[[(b)]] calculating a check sum of said second memory;

[[(c)]] comparing said check sum of said first memory to said check sum of said second memory; and

[[(d)]] booting ~~a program~~ said transferred program from said first memory to said second memory in accordance with data stored in said third memory, if said check sum of said first memory is not coincident with said check sum of said second memory.

34. (new) A method of changing programs stored in a terminal device, comprising:
copying existing and used programs from a second memory to a first memory of said
terminal device;

storing first indicia of said existing and used programs in a table of a third memory of
said terminal device;

requesting a change of programs by said terminal device, said change of programs
including at least one of an added program and a deleted existing program;

storing second indicia of said change of programs in said table;

loading said added program into said first memory; and

booting from said first memory to said second memory said existing and used
programs and said added program, while not booting from said first memory said deleted
existing program, based on said second indicia stored in said table.

AMENDMENTS TO FIGURE DRAWINGS

Attached herewith is a "Replacement Sheet," in which the feedback loop from S408 of Fig. 5 is now corrected to return after S401 and before S402 in order to calculate a new check sum corresponding to a changed program in first memory, i.e., S408. Previously, Fig. 5 showed the feedback loop from S408 incorrectly returning after S405 and before S406.